wherein a recirculation system comprising a withdrawal system for waste water and a supply line for waste water for flow delivery into the central flow channel are provided.

30. The hybrid reactor of claim 29,

wherein the withdrawal system comprises an intermediate space between two plate-like elements as well as a conduit starting in said intermediate space.

31. The hybrid reactor of claim 29,

wherein the discharge system is positioned a distance above the withdrawal system of the recirculation system.

32. The hybrid reactor of claim 24,

wherein the separator system comprises a partition provided in spaced apart manner above the upper end of the central flow channel and covering a large part of the reactor cross-sectional area while leaving free an outer annular area.

33. The hybrid reactor of claim 32,

wherein the partition has portions in which it does not extend horizontally and forms a gas collection space in a highest portion.

34. The hybrid reactor of claim 33,

wherein, from the highest portion, the partition extends - roughly speaking - outwardly in downwardly inclined manner and inwardly in downwardly inclined manner.

35. The hybrid reactor of claim 32,

wherein a withdrawal system of the recirculation system is positioned at the upper side of the partition.

36. The hybrid reactor of claim 24,

IAP12 Rec'd PCT/PTO 28 APR 2006

PTO-1390 (Rev. 02-2005)
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U.S. APPLICATION NO. (if known, see 8 CFR 1.5) 10/5/8844 INTERNATIONAL APPLICATION NO. PCT/EP2004/052803					HAM 830020/USw	
The following fees have been submitted					CALCULATIONS	PTO USE ONLY
21. X Basic national fee\$300				\$300	\$300.°°	
22. Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)					\$200.°°	
23. Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority					\$500,°° \$1000.°°	
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Total claims	20	- 20 =	0	x \$50	\$	
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MULTIPLE DEPENDENT CLAIM(S) (If applicable)				÷ \$360	\$	
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Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.						
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- •Transmittal Letter to the United States DO/EO/US concerning a submission under 35 USC 371 (2 pages)
- Declaration for Patent Application (2 copies, 3 pages each)
- Application Data Sheet
- Information Disclosure Statement + 6 references
- · Assignment and Recordation Cover Sheet (2 copies, 2 pages each)
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